

# Multilin B30

# Low Impedance Biased Bus Differential Protection for up to Six Feeders

The Multilin™ B30 bus differential system provides secure and sub-cycle low impedance bus protection for a single busbar with up to six feeders. The B30 is ideally suited in applications where high impedance schemes were typically used. Overall system costs can be reduced with the B30, since there is no need for dedicated, or interposing, CTs.

The B30 comes with advanced features, such as breaker failure, CT trouble detection, under-voltage supervision, and dynamic bus replica. With its extreme flexibility, which includes a CT ratio mismatch of up to 32:1 between terminals, the B30 is the ideal solution in a wide variety of bus differential applications.

## **Key Benefits**

- High-speed protection algorithm for enhanced stability with trip times of 0.75 power cycle
- Superior CT saturation detector capable of detecting CT saturation even with only 2 msec of saturation free current for enhanced stability during fault conditions
- Cost-effective alternative to high impedance schemes protection
- Advanced automation capabilities for providing customized protection and control solutions
- An integrated large, full color display, provides real-time visualization and control of the protected bay, via a bay mimic as well as annunciator functionality and graphical visualization of phasors
- Advanced IEC 61850 Ed. 2 certified implementation, complete settings via SCL files and IEC 61850-9-2
  process bus solution enable resource and platform managing optimization and reduce cost of ownership
- Routable GOOSE (R-GOOSE) enables customer to send GOOSE messages beyond the substation, which
  enables WAPC and more cost effective communication architectures for wide area applications
- Increased network availability via failover time reduced to zero through IEC® 62439-3 "PRP" support
- Supports IEEE C37.111-1999/2013, IEC 60255-24 Ed 2.0 COMTRADE standard

#### **Applications**

- Re-configurable and pre-defined bus arrangements for simple bus applications, up to 6 feeders and 2 differential zones with breaker failure
- Integrated bus protection and metering for HV and EHV substations

## Protection and Control

- Differential protection with restrained and unrestrained function
- Fast and reliable CT saturation detection & CT ratio mismatch compensation
- Breaker fail protection, external check zone, and dynamic bus replica, and Undervoltage function for supervision
- Protection and control functionality in one box, reducing the number of devices
- High density inputs/outputs to support the control of many switchyard assets – all from one powerful device
- Integrated large, full color display, for real-time visualization and control of the protected bay

### **Advanced Communications**

- Support industry standard protocols with 3 independent Ethernet ports for simultaneous & dedicated connection with IEEE 1588 support
- IEC 61850-9-2 process bus support

# Cyber Security

 CyberSentry™ provides high-end cyber security aligned to industry standards and services (NERC® CIP, AAA, Radius, RBAC, Syslog)

# Monitoring & Metering

- Isolator monitoring and alarming
- CT trouble monitoring & VT supervision
- Advanced recording capabilities with highcapacity event recorder, configurable and extended waveform capture and data logger
- Metering: current, voltage, power, energy, frequency, and harmonics



### **Protection and Control**

As part of the UR family of Protection & Control devices, the B30 offers a high degree of modularity in its design and functionality, providing superior performance while meeting the toughest requirements of the marketplace. Advanced protection and control features of this advanced relay includes:

#### **Bus Differential Protection**

The B30 is based on a centralized phasesegregated architecture that does not rely on extensive communications between IEDs, an approach that increases overall reliability.

The B30 provides fast and secure low impedance bus protection with sub-cycle tripping times averaging 0.75 cycles. The primary protection is based on differential and directional protection principles, and uses a dedicated CT saturation mechanism for additional through-fault stability. This mechanism is capable of detecting saturation of CTs as quickly as two milliseconds into an external fault. The overall system costs can be reduced with the B30 since there is no need for dedicated, or interposing, external CTs. The two differential zones can handle two small buses, split bus, or single bus bar with supervision zone.

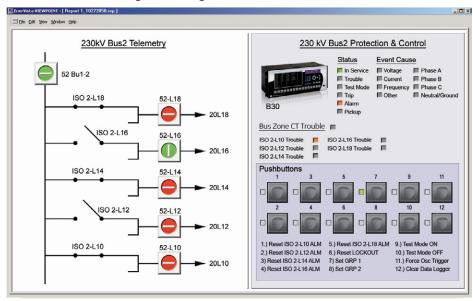
#### Dynamic Bus Replica

The B30 provides a dynamic bus replica for each zone of differential protection. Built-in programmable logic removes the need for external auxiliary relays, and provides the ability to include or exclude currents dynamically from the differential zones. This allows the B30 to follow the actual busbar configuration with no external switching of CT circuits required. The B30 also avoids blind and overtripping spots in simple bus configurations. Reliability is increased and costs reduced by eliminating auxiliary relays that would otherwise be used for switching physical currents. The ability to monitor auxiliary switches and a contact discrepancy alarm also provides increased security.

#### **Breaker Failure Protection**

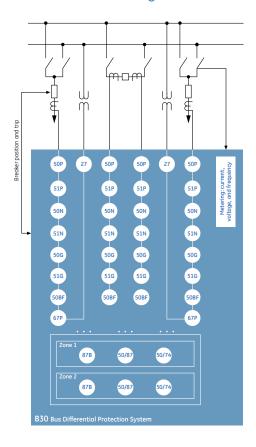
Three-pole breaker failure (BF) protection is available. The B30 system provides for up to 6 BF elements that can respond to currents and/or auxiliary contacts. The current supervision provides fast reset time and separate settings for low-set and hi-set implementations. The BF can be initiated internally from the busbar protection or externally via input contacts or communications.

#### B30 - Protection, Metering, Monitoring and Control



The B30 is the single point for protection, control, metering, and monitoring in one integrated device that can easily be connected directly into DCS or SCADA monitoring and control systems like Viewpoint Monitoring.

## Functional Block Diagram



#### ANSI® Device Numbers & Functions

DEVICE NUMBER	FUNCTION		
27P	Phase Undervoltage		
49	Thermal Overload		
50BF	Breaker Failure Protection		
50G	Ground Instantaneous Overcurrent		
50N	Neutral Instantaneous Overcurrent		
50P	Phase Instantaneous Overcurrent		
50/74	CT Trouble		
50/87	Unrestrained Bus Differential		
51G	Ground Time Overcurrent		
51N	Neutral Time Overcurrent		
51P	Phase Time Overcurrent		
59N	Neutral Overvoltage		
59X	Auxiliary Overvoltage		
67P	Phase Directional		
87B	Restrained Bus Differential		

#### **Backup Protection**

Backup protection is available with instantaneous and time overcurrent functions for each current input of the B30 system. For supervision purposes, an undervoltage function is also provided for each voltage input of the B30 system.

- IOC Functions: Two separate IOC functions are available for trip supervision or other user-configurable applications
- TOC: One TOC function is incorporated for each CT input of the relay. Up to 6 TOCs are available for backup protection. The TOC function can use standard or userprogrammable curves
- Voltage Supervision: up to two undervoltage elements are available per each VT input of the relay. This function may be used to supervise the current-based protection functions for extra security.

#### External Check-Zone

An optional external check-zone can be used to prevent operation of the differential protection due to CT troubles. If one B30 current input is left unused and an alternative set of current signals is available from independent CTs, the currents can be combined externally and connected to the relay. Two phase overcurrent elements are available to check the level of this independently formed differential current to supervise the main differential protection.

#### IEC 61850 Process Bus

The IEC 61850 Process Bus module is designed to interface with the GE Multilin HardFiber System, allowing bi-directional IEC 61850 fiber optic communications. The HardFiber System is designed to integrate seamlessly with existing UR applications, including protection functions, FlexLogic, metering and communications. The GE Multilin HardFiber System offers the following benefits:

- Communicates using open standard IEC 61850 messaging
- Drastically reduces P&C design, installation and testing labor by eliminating individual copper terminations
- Integrates with existing B30's by replacing traditional CT/VT inputs with the IEC 61850 Process Bus module
- No new cyber security concerns

Visit the HardFiber System product page on the GE Multilin web site for more details.

#### **Advanced Automation**

The B30 incorporates advanced automation features including powerful FlexLogic programmable logic, communication, and SCADA capabilities that far surpass what is found in the average bus relay. The B30 integrates seamlessly with other UR relays for complete system protection.

#### **Built-in Advanced Disturbance Recording**

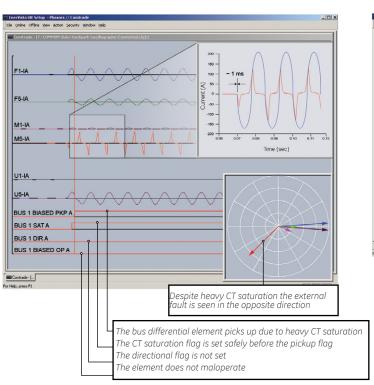
The built-in advanced disturbance recording function allows users to view the COMTRADE files and troubleshoot bus faults. The internal operation of the B30 elements, logic, and outputs can be monitored in real-time to simplify commissioning and troubleshooting procedures. Two cases are shown here:

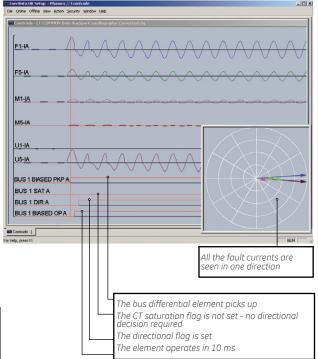
#### External Fault:

Even with heavy CT saturation and with only 1 msec of saturation free current, B30 is stable for through faults. See the directional comparison element output, which adds additional security to the bus differential function.

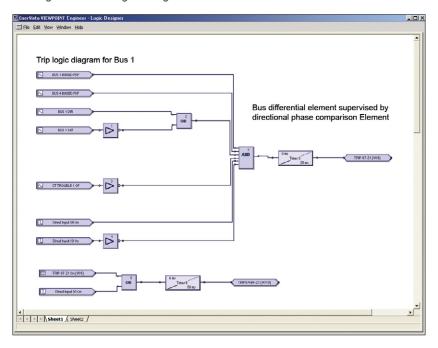
#### Internal Fault:

For internal faults the CT saturation flag is not set and the directional element output is safely ignored, resulting in an operating time of less than 10 msec.





#### **Custom Programmable Logic Designer**



The internal operation of the B30 elements, logic, and outputs can be monitored in real-time to simplify commissioning and troubleshooting procedures.

#### FlexLogic

FlexLogic is the powerful UR-platform programming logic engine that provides the ability to create directional comparison customized protection and control schemes, minimizing the need and associated costs of auxiliary components and wiring. With 1024 lines of FlexLogic, the B30 can be programmed to provide required tripping logic along with custom scheme logic for breaker control, transfer tripping schemes for remote breakers and dynamic setting group changes.

#### Scalable Hardware

The B30 is available with a multitude of I/O configurations to suit the most demanding application needs. The expandable modular design allows for easy configuration and future upgrades.

- Multiple CT/VT configurations allow for the implementation of many different schemes
- Flexible, modular high density I/O covering a broad range of input signals and tripping schemes
- Types of digital outputs include triprated Form-A and Solid State Relay (SSR) mechanically latching, and Form-C outputs
- Form-A and SSR outputs available with optional circuit continuity monitoring and current detection to verify continuity and health of the associated circuitry

- Mechanically latching outputs can be used to develop secure interlocking applications and replace electromechanical lockout relays
- RTDs and DCmA inputs are available to monitor equipment parameters, such as temperature and pressure

#### Monitoring and Metering

The B30 includes high accuracy metering and recording for all AC signals. Voltage, current, power and energy metering are built into the relay as a standard feature. Current and voltage parameters are available as total RMS magnitude, and as fundamental frequency magnitude and angle.

#### **Fault and Disturbance Recording**

The advanced disturbance and event recording features within the B30 can significantly reduce the time needed for postmortem analysis of power system events and the creation of regulatory reports. Recording functions include:

- Sequence of Event (SOE)
  - 1024 time stamped events
- Oscillography
  - Supports IEEE C37.111-1999/2013, IEC 60255-24 Ed 2.0 COMTRADE standard
  - 64 digital & up to 40 analog channels
  - Events up to 45s in length

- Data Logger and Disturbance Recording
  - 16 channels up to 1 sample/cycle/channel
- Fault Reports
  - Powerful summary report of pre-fault and fault values

The very high sampling rate and large amount of storage space available for data recording in the B30 can eliminate the need for installing costly stand-alone recording equipment.

#### **Advanced Device Health Diagnostics**

The B30 performs comprehensive device health diagnostic tests at startup and continuously during run-time to test its own major functions and critical hardware. These diagnostic tests monitor for conditions that could impact security and availability of protection, and present device status via SCADA communications and front panel display. Providing continuous monitoring and early detection of possible issues help improve system uptime.

- Comprehensive device health diagnostic performed at startup
- Monitors the CT/VT input circuitry to validate the integrity of all signals

# Cyber Security - CyberSentry UR

CyberSentry UR enabled UR devices deliver full cyber security features that help customers to comply with NERC CIP and NIST® IR 7628 cyber security requirements.

This software option delivers the following core features:

#### AAA Server Support (Radius/LDAP)

Enables integration with centrally managed authentication and accounting of all user activities and uses modern industry best practices and standards that meet and exceed NERC CIP requirements for authentication and password management.

#### Role Based Access Control (RBAC)

Efficiently administrate users and roles within UR devices. The new and advanced access functions allow users to configure up to five roles for up to eight configurable users with independent passwords. The standard "Remote Authentication Dial In User Service" (Radius) is used for authentication.

#### **Event Recorder (Syslog for SEM)**

Capture all cyber security related events within a SOE element (login, logout, invalid password attempts, remote/local access, user in session, settings change, FW update, etc), and then serve and classify data by security level using standard Syslog data format. This will enable integration with established SEM (Security Event Management) systems.

#### Communications

The B30 provides for secure remote data and engineering access, making it easy and flexible to use and integrate into new and existing infrastructures. Fiber optic Ethernet provides high-bandwidth communications allowing for low-latency controls and high-speed file transfers of relay fault and event record information. The available three independent Ethernet ports, and redundant Ethernet option provide the means to create fault tolerant communication architectures in an easy, cost-effective manner.

The B30 supports the most popular industry standard protocols enabling easy, direct integration into DCS and SCADA systems.

- IEC 61850 Ed. 2 with 61850-9-2 and 61850-90-5 support
- DNP 3.0 (serial & TCP/IP)
- Ethernet Global Data (EGD)
- IEC 60870-5-103 and IEC 60870-5-104
- Modbus RTU, Modbus TCP/IP
- HTTP, TFTP, SFTP and MMS file transfer
- SNTP and IEEE 1588 for time synchronization
- PRP as per IEC 62439-3
- Supports Routable GOOSE (R-GOOSE)

# Interoperability with Embedded IEC 61850 Edition 2

The new IEC 61850 implementation in the UR Family positions GE as an industry leader in this standard.

- Implements Edition 2 of the standard across the entire family of UR devices
- Provides full relay setting management via standard SCL files (ICD, CID and IID)
- Enables automated relay setting management using 3rd party tools through standard file transfer services (MMS and SFTP)

- Increases the number of Logical Devices and data mapped to them, GOOSE messages from up to 64 remote devices, and reports to support different organizational needs for data transfer and reduce dependency on generic logical nodes
- Configures GE Systems based on IEC 61850 using universal 3rd party tools
- Multicast IEEE C37.118 synchrophasor data between PMU and PDC devices using IEC 91850-90-5
- R-GOOSE enable customer to send GOOSE messages beyond the substation, which enables Wide Area Protection & Control (WAPC) and more cost effective communication architectures for wide area applications

#### Direct I/O Messaging

Direct I/O allows for the sharing of high-speed digital information between multiple UR relays via direct back-to-back connections or multiplexed through a standard DSO multiplexer channel bank. Regardless of the connection method, direct I/O provides continuous real-time channel monitoring that supplies diagnostics information on channel health.

Direct I/O provides superior relay-to-relay communications that can be used in advanced interlocking, generation rejection and other special protection schemes.

- Communication with up to 16 UR relays in single or redundant rings rather than strictly limited to simplistic point-to-point configurations between two devices
- Connect to standard DSO channel banks through standard RS422, G.703 or IEEE C37.94 interfaces or via direct fiber optic connections
- No external or handheld tester required to provide channel diagnostic information

#### LAN Redundancy

Substation LAN redundancy has been traditionally accomplished by reconfiguring the active network topology in case of failure. Regardless of the type of LAN architecture (tree, mesh, etc), reconfiguring the active LAN requires time to switchover, during which the LAN is unavailable. UR devices deliver redundancy as specified by PRP-IEC 62439-3, which eliminates the dependency on LAN reconfiguration and the associated switchover time. The UR becomes a

dual attached node that transmits data packets over both main and redundant networks simultaneously, so in case of failure, one of the data packets will reach the receiving device with no time delay.

#### Multi-Language

UR devices support multiple languages: English, French, Russian, Chinese, Turkish, German, Polish and Japanese. These language options are available on the front panel, in the EnerVista setup software, and in the product manuals. Easily switch between English and an additional language on the local displays without uploading new firmware.

#### EnerVista Software

The EnerVista suite is an industry-leading set of software programs that simplifies every aspect of using the B30 relay. The EnerVista suite provides all the tools to monitor the status of the protected asset, maintain the relay, and integrate information measured by the B30 into DCS or SCADA monitoring systems. Convenient COMTRADE and SOE viewers are an integral part of the UR setup software included with every UR relay, to carry out postmortem event analysis and ensure proper protection system operation.

#### EnerVista Launchpad

EnerVista Launchpad is a powerful software package that provides users with all of the setup and support tools needed for configuring and maintaining GE Multilin products. The setup software within Launchpad allows for the configuration of devices in real-time by communicating using serial, Ethernet, or modem connections, or offline by creating setting files to be sent to devices at a later time.

Included in Launchpad is a document archiving and management system that ensures critical documentation is up-to-date and available when needed. Documents made available include:

- Manuals
- Brochures
- Application Notes
- Wiring Diagrams
- Guideform Specifications
- FAQ's
- Service Bulletins

#### Viewpoint Monitoring

Viewpoint Monitoring is a simple-to-use and full-featured monitoring and data recording software package for small systems. Viewpoint Monitoring provides a complete HMI package with the following functionality:

- Plug-&-Play Device Monitoring
- System Single-Line Monitoring & Control
- Annunciator Alarm Screens
- Trending Reports
- Automatic Event Retrieval
- Automatic Waveform Retrieval

#### Viewpoint UR Engineer

Viewpoint UR Engineer is a set of powerful tools that allows the configuration and testing of GE relays at a system level in an easy-to-use graphical drag-and-drop environment. Viewpoint UR Engineer provides the following configuration and commissioning utilities:

- Graphical Logic Designer
- Graphical System Designer
- Graphical Logic Monitor
- Graphical System Monitor

#### Viewpoint Maintenance

Viewpoint Maintenance provides tools that will create reports on the operating status of the relay, simplify the steps to download fault and event data, and reduce the work required for cyber security compliance audits. Tools available in Viewpoint Maintenance include:

- Settings Security Audit Report
- Device Health Report
- Single-ClickFault Data Retrieval

#### **EnerVista Integrator**

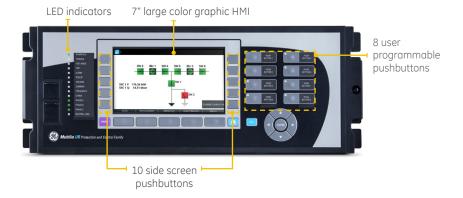
EnerVista Integrator is a toolkit that allows seamless integration of GE Multilin devices into new or existing automation systems. Included in EnerVista Integrator is:

- OPC/DDE Server
- GE Multilin Drivers
- Automatic Event Retrieval
- Automatic Waveform Retrieval

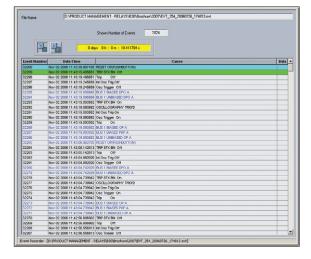
#### User Interface

The B30 front panel provides extensive local HMI capabilities. The local display is used for monitoring, status messaging, fault diagnosis, and device configuration. User-configurable messages that combine text with live data can be displayed when user-defined conditions are met.

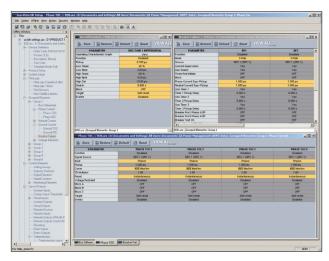
A 7" color, graphic HMI is optionally available that allows users to have customizable bay diagrams with local monitoring of status, values and control functionality. The alarm annunciator panel provides the configuration of up to 96 signals (alarms and status) with full text description.



SimplifyingCommissioning and Testing

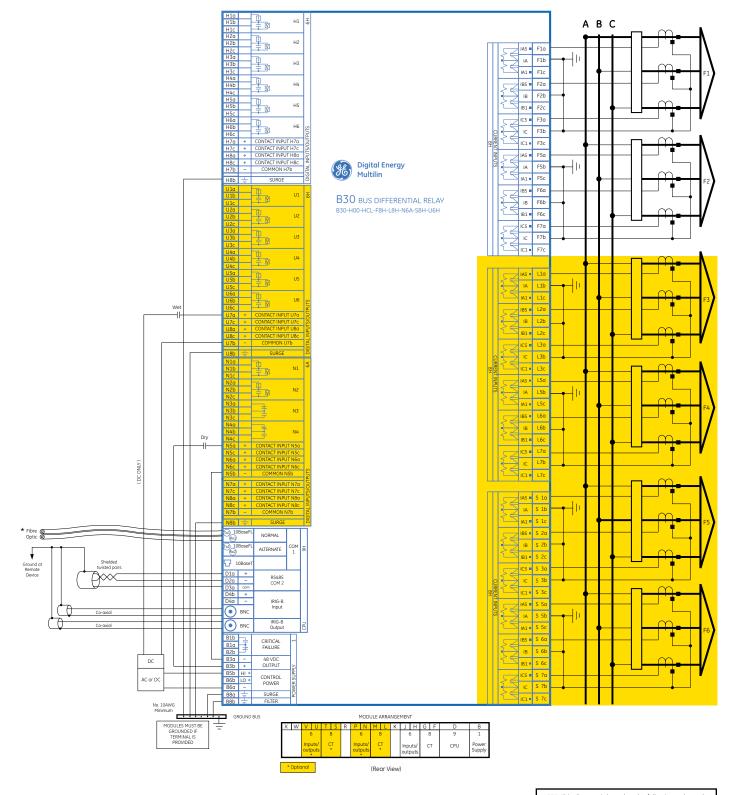


Record the operation of the internal B30 elements and external connected devices with 1ms time-stamped accuracy.



Create B30 setting file templates to ensure critical settings are not altered.

# **Typical Wiring**



NOTE: This diagram is based on the following order code: 830-H00-HCL-F8H HGH-L8H-HAG-S8H-UGH. This diagram provides an example of how the device is wired, not specifically how to wire the device. Please refer to the Instruction Manual for additional details on wiring based on various configurations.

# Ordering

B30 - * **	- H * * - F**- H**- L**-	N **- S **- U **- W **	For Full Sized Horizontal Mount
Base Unit B30   CPU E			Base Unit RS485 + RS485 (IEC 61850 option not available)
G H			RS485 + 10BaseF RS485 + Redundant 10BaseF
J			RS485 + multimode ST 100BaseFX
K N			RS485 + multimode ST Redundant 100BaseFX RS485 + 10/100 BaseT
T U			RS485 + three multimode SFP LC 100BaseFX. Req FW v7xx or higher RS485 + two multimode SFP LC 100BaseFX + one SFP RJ45 100BaseT. Req FW v7xx or higher
V			RS485 + three SFP RJ45 100BaseT. Req FW v7xx or higher
Software Options <sup>1</sup> W			RS485 + two 100BaseFx Eth, Multimode ST + one 10/100BaseT Eth, RJ-45 <sup>3</sup> No Software Options
03 A0			IEC 61850 CyberSentry UR Lvl 1. Reg UR FW 7.xx or higher
BO			IEEE 1588. Req UR FW 7.xx or higher
CO DO	111 1 1 1		FRP IEEE 1588 + CyberSentry UR. Req UR FW 7.xx or higher Horizontal (19° rack)
Mount/Coating	H A		Horizontal (19" rack) Horizontal (19" rack) - Harsh Chemical Environment Option
User Interface	E		7" Graphical display, USB front port & programmable pushbuttons - Multi-Language (FW 7.6x or higher)
	C		Basic Front Panel With English Display Enhanced German Front Panel Enhanced German Front Panel with User-Programmable Pushbuttons
	J K		Enhanced German Front Panel with User-Programmable Pushbuttons Enhanced English Front Panel
	L		Enhanced Enalish Front Panel with User-Programmable Pushbuttons
	M N		Enhanced French Front Panel Enhanced French Front Panel with User-Programmable Pushbuttons
	Q		Enhanced Russian Front Panel Enhanced Russian Front Panel with User-Programmable Pushbuttons
	Ů V		Enhanced Chinese Front Panel Enhanced Chinese Front Panel with User-Programmable Pushbuttons
	w		Enhanced Turkish Front Panel
	Y H		Enhanced Turkish Front Panel with User-Programmable Pushbuttons Enhanced Polish Front Panel <sup>3</sup>
	O Z		Enhanced Polish Front Panel with User-Programmable Pushbuttons <sup>3</sup> Enhanced Japanese Front Panel <sup>3</sup>
	Х		Enhanced Japanese Front Panel with User-Programmable Pushbuttons <sup>3</sup>
Power Supply <sup>2</sup>	H H	RH	125 / 250 V AC/DC 125/250 V AC/DC with redundant 125/250 V AC/DC power supply
CT/VT DSP	L 8L 8L	8L	24 - 48 V (DC only) Standard 4CT/4VT w/ enhanced diagnostics
C1/V1 231	8M 8M	M8	Sensitive Ground 4CT/4VT w/ enhanced diagnostics
	8N 8N 8R 8R	8N 8R	Standard 8CT w/ enhanced diagnostics Sensitive Ground 8CT w/ enhanced diagnostics
IEC 61850 Process Bus Digital I/O	81 XX	XX XX	8 Port IEC 61850 Process Bus Module No module
9	4A 4C	4A 4A 4C 4C	4 Solid State (No Monitoring) MOSFET Outputs 4 Solid State (Current w/opt Voltage) MOSFET Outputs
	/ıD	4D 4D	16 Digital Inputs with Auto-Burnish
	4L 67	4L 4L 67 67	14 Form-A (No Monitoring) Latchable Outputs 8 Form-A (No Monitorina) Outputs
	67 6C	6C 6C 6D 6D	8 Form-A (No Monitoring) Outputs 8 Form-C Outputs 16 Digital Inputs
	6D 6E	6E 6E	4 Form-C Outputs, 8 Digital Inputs
	6F 6K	6F 6F 6K 6K	8 Fast Form-C Outputs 4 Form-C & 4 Fast Form-C Outputs
	6L 6M	6L 6L 6M 6M	2 Form-A (Current w/ opt Voltage) & 2 Form-C Outputs, 8 Digital Inputs 2 Form-A (Current w/ opt Voltage) & 4 Form-C Outputs, 4 Digital Inputs
	6N	6N 6N	4 Form-A (Current w/ ont Voltage) Outputs 8 Digital Inputs
	6P 6R	6P 6P 6R 6R	6 Form-A (Current w/ opt Voltage) Outputs, 4 Digital Inputs 2 Form-A (No Monitoring) & 2 Form-C Outputs, 8 Digital Inputs
	6S 6T	6S 6S 6T 6T	6 Form-A (Current w/ opt Voltage) Outputs, 4 Digital Inputs 2 Form-A (No Monitoring) & 2 Form-C Outputs, 8 Digital Inputs 2 Form-A (No Monitoring) & 4 Form-C Outputs, 4 Digital Inputs 4 Form-A (No Monitoring) Outputs, 8 Digital Inputs
	6U	6U 6U	6 Form-A (No Monitoring) Outputs, 4 Digital 2 Form-A (Cur w/ opt Volt) 1 Form-C Output, 2 Latching Outputs, 8 Digital Inputs
	6V 6W	6V 6V 6W 6W	30 Contact Inputs - Pin Terminals <sup>3</sup>
Transducer I/O	6X 5A	6X 6X 5A 5A	18 Form-A (No Monitoring) Outputs - Pin Terminals <sup>3</sup> 4 dcmA Inputs, 4 dcmA Outputs
	5A 5F	5F 5F	8 dcmA Inputs
Inter-Relay Communications		2B 2I	C37.94SM, 1300nm singlemode, ELED, 2 Channel singlemode Channel 1 - IEEE C37.94, 820nm, multimode fiber, 64/128 kbps;
		2J	Channel 2 - 1300 nm, singlemode, LASER Channel 1 - IEEE C37.94, 820nm, multimode , 64/128 kbps; Channel 2 - 1550 nm, singlemode, LASER 820 nm, multimode, LED, 1 Channel
		7A 7B	820 nm, multimode, LED, 1 Channel
		7C	1300 nm, multimode, LED, 1 Channel 1300 nm, singlemode, ELED, 1 Channel
		7H 7I	820 nm, multimode, LED, 2 Channels 1300 nm, multimode, LED, 2 Channels
		7J	1300 nm, singlemode, ELED, 2 Channels
		7S 7W	G.703, 2 Channels RS422, 2 Channels
		77	IEEE C37.94, 820 nm, multimode, LED, 2 Channel

#### Ordering Notes:

- 1. To view all available model order codes, options for B30 or to order the UR Classic Front Panel, please visit GE's On-Line Store at <a href="http://store.gedigitalenergy.com/viewprod.asp?model=B30">http://store.gedigitalenergy.com/viewprod.asp?model=B30</a>
  2. Redundant power supply only available in horizontal unit. If redundant is chosen, must be same type. Maximum 2 per chassis
  3. Option available soon

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